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L1: Entry 2 of 34

File: USPT

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TITLE: Fast green/magenta dithering of color images

Application Filing Date (1):19980901Detailed Description Text (21):

The invention is not limited to the use of a dither matrix. Instead of storing a dither matrix in computer memory, thresholds may be calculated on the fly. A threshold would be compared to a pixel in the Green plane, and a compliment of a threshold would be compared to a corresponding pixel in the Magenta plane. The threshold may then be discarded after being used. See a patent application entitled "Halftone Dithering With and Without Mask" by Michael D. McGuire and Rodney Shaw, Serial No. 08/729,082, filed on Oct. 10, 1996 and incorporated herein by reference (halftoned binary images are produced from grayscale images by taking a region of pixels from the input image and computing thresholds for every pixel in the region such that locations of the thresholds close in value are as random as possible consistent with being anticorrelated).

## CLAIMS:

11. The apparatus of claim 8, wherein the means for providing the thresholds includes computer memory, the thresholds being stored in a dither matrix in the computer memory, the dither matrix and an inverse of the dither matrix being applied to the color planes of the image.